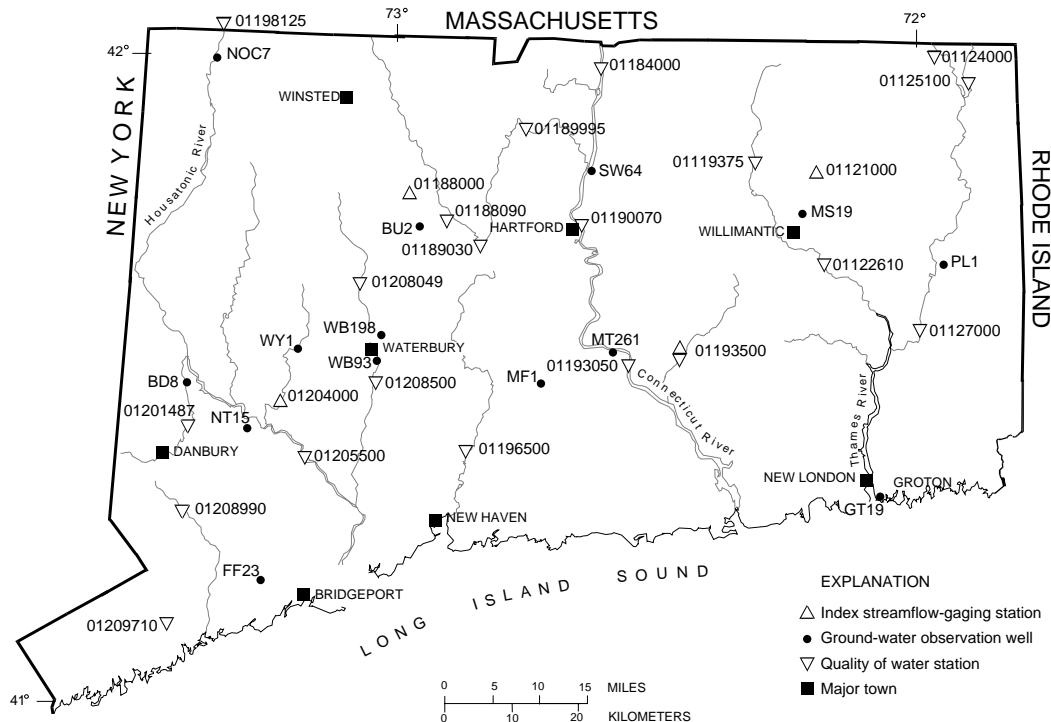


**WATER-RESOURCES CONDITIONS  
IN CONNECTICUT, JULY 2000**

The USGS provides maps, reports, and information to help others manage, develop, and protect America's water, energy, mineral, land, and biological resources.



**DATA-COLLECTION SITES USED IN THIS REPORT**

This report contains a small part of the ground-water, surface-water, and water-quality data collected by the USGS at sites in Connecticut. More complete information may be found in the annual Water-Data Report. Data for this report were collected by the USGS in cooperation with the Connecticut Dept. of Environmental Protection.

For more information on USGS programs in Connecticut, please contact Virginia de Lima (District Chief); 101 Pitkin St., East Hartford, CT 06108; phone (860) 291-6740; fax (860) 291-6799; dc\_ct@usgs.gov

Additional earth science information, including this document, is on the USGS Home Page on the World Wide Web at <http://www.usgs.gov> or the Connecticut District home page at <http://ct.water.usgs.gov>. For more information on all USGS reports and products (including maps, images, and computerized data), call 1-888-ASK-USGS.

**INDEX TO INFORMATION**

Data Sites	1	Water Quality	3
Streamflow	2	Ground Water	4

**STREAMFLOW** (measured in cubic feet per second) → PROVISIONAL DATA ←

Streamflows in July were in the normal to above-normal range for the entire State. Flow in Mount Hope River (NE Connecticut) returned to the normal range after being in the above-normal range for 1 month. Flows in Burlington Brook (NW Connecticut), Salmon River (SE Connecticut), and Pomperaug River (SW Connecticut) remained in the above-normal range for the second consecutive month. Across the State, mean streamflow for July averaged 286 percent of the July long-term median value.

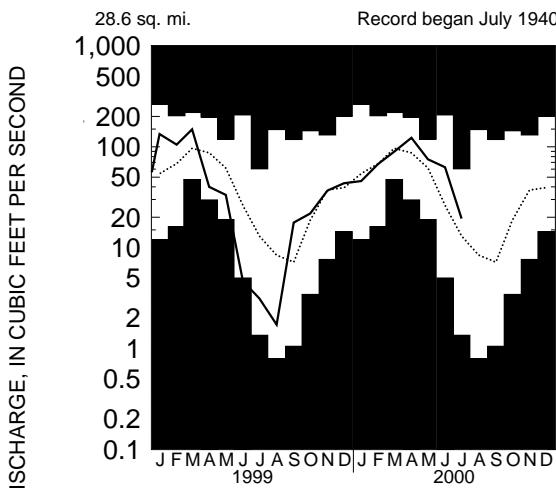
USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	JULY 2000 MEAN	JUNE 2000 MEAN	JULY 1999 MEAN	JULY MAXIMUM VALUE (year recorded)	JULY MINIMUM VALUE (year recorded)	JULY MEDIAN (1961–90)
MT HOPE RIVER (01121000)	19.4	62.8	3.12	60.4	1972	13.0
BURLINGTON (01188000)	7.84	13.4	0.86	15.2	1938	3.03
SALMON RIVER (01193500)	81.3	198	23.8	426	1938	46.8
POMPERAUG (01204000)	133	190	11.9	272	1938	34.9

**MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS**

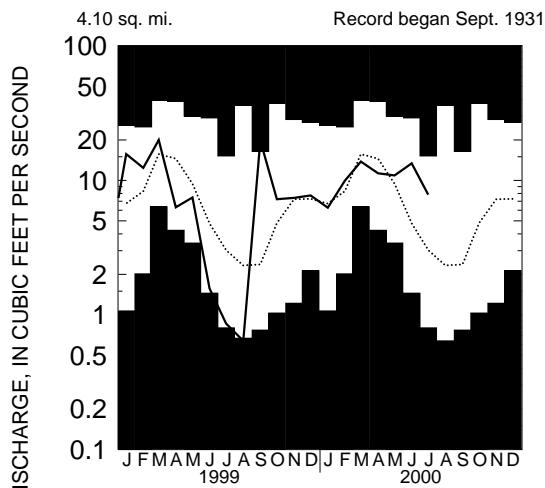
■ Shaded areas on graphs show highest and lowest monthly mean discharge of record.

— Current record      ..... Median (1961–1990)

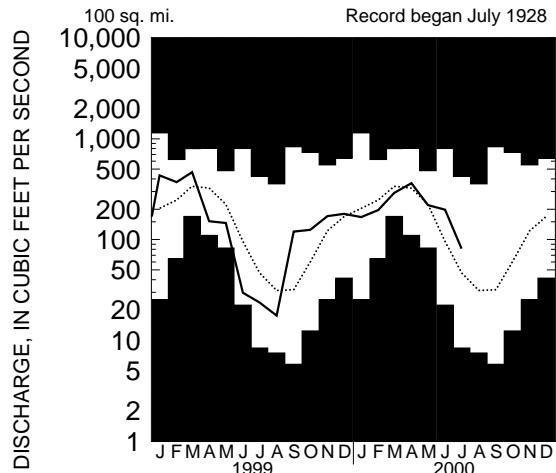
MOUNT HOPE RIVER NEAR WARRENVILLE



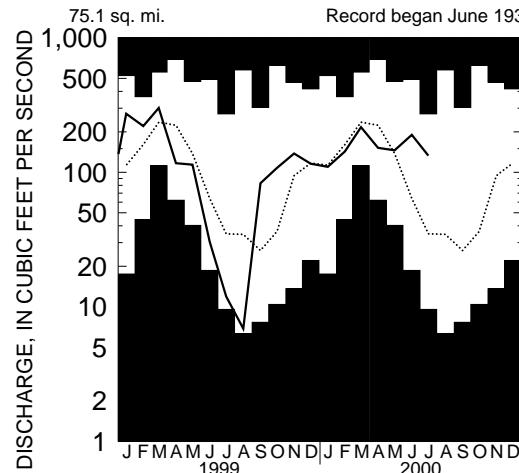
BURLINGTON BROOK NEAR BURLINGTON



SALMON RIVER NEAR EAST HAMPTON



POMPERAUG RIVER AT SOUTHURY



# CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL QUALITY OF SELECTED STREAMS IN CONNECTICUT

→ PROVISIONAL DATA ←

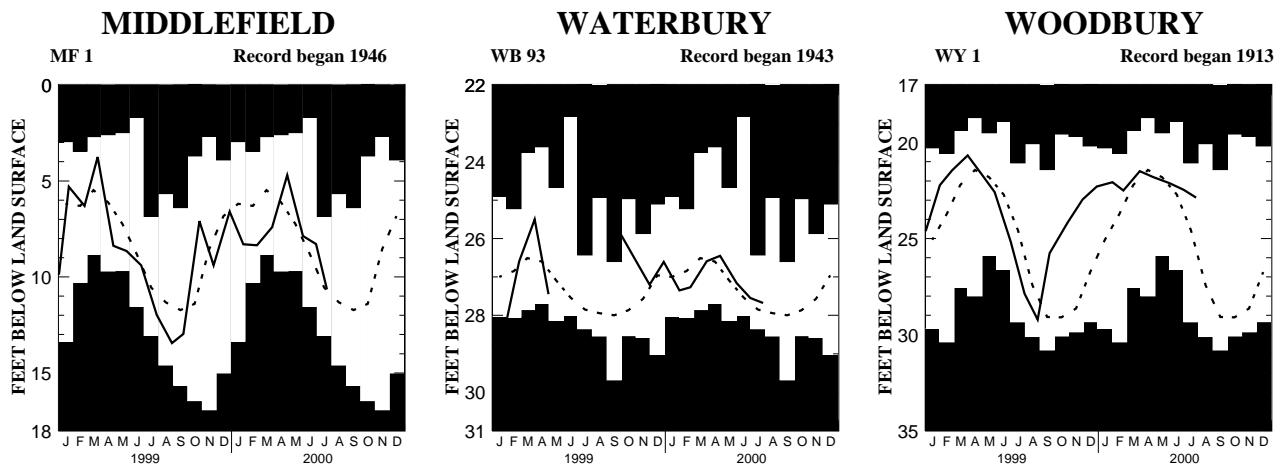
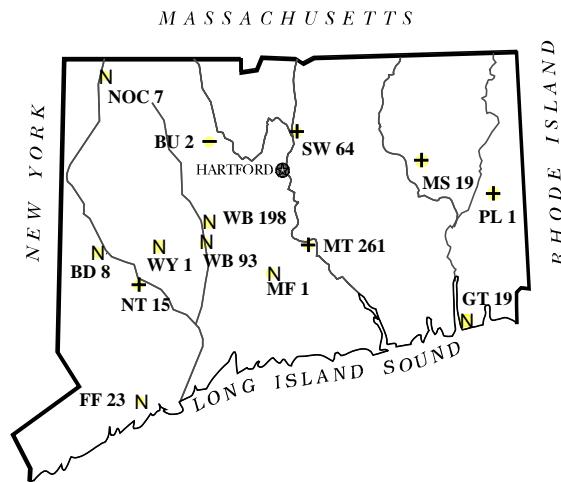
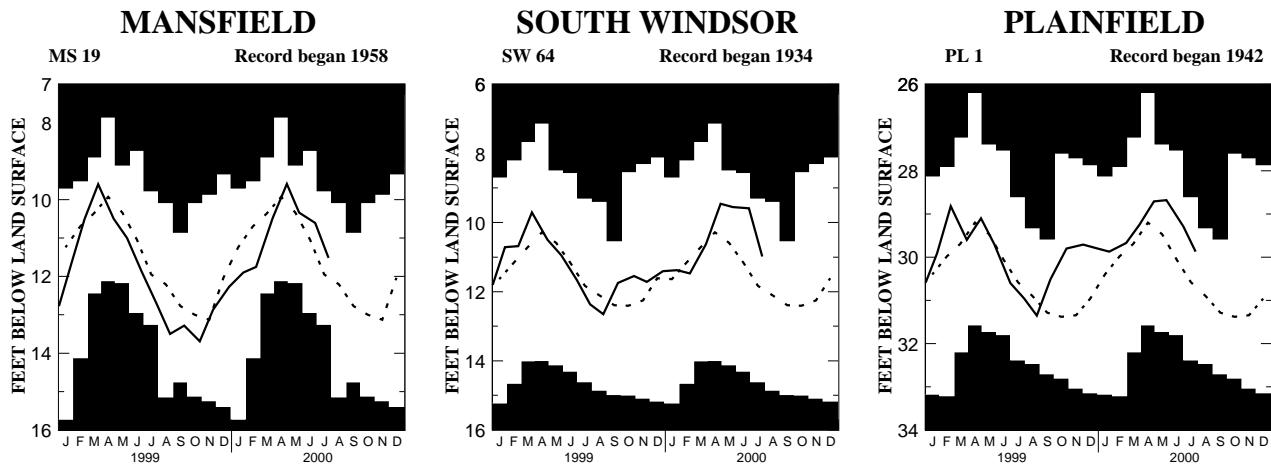
[Station locations shown on front page; --, not applicable; streamflow measured in instantaneous cubic feet per second; % flow duration is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; bacteriological analysis reconnaissance data enumerated using membrane filter method with immediate incubation; col/100 mL, colonies per 100 milliliters; K, results based on colony count outside the acceptable range (non-ideal colony count)]

USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 2000	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S}/\text{cm}$ at $25^\circ\text{C}$ )	WATER TEMPERATURE ( $^\circ\text{C}$ )	DISSOLVED OXYGEN CONCENTRATION (mg/L)	FIELD PH	FECAL COLIFORM (COL/100 mL)	ENTEROCOCCI (COL/100 mL)
01119375 Willimantic R. at Merrow	7/6	58.8/--	112	23.0	9.0/107	7.17	132	43
01122610 Shetucket R. at South Windham	7/12	150/--	126	24.5	8.3/100	7.57	44	11K
01124000 Quinebaug R. at Quinebaug	7/10	15.9/97	175	23.5	8.1/99	7.48	152	68
01125100 French R. at North Grosvenordale	7/10	34.7/--	189	25.0	8.1/103	7.78	57	15K
01127000 Quinebaug R. at Jewett City	7/12	151/96	133	23.5	8.5/100	8.03	36	34
01184000 Connecticut R. at Thompsonville	7/28	13900/43	107	20.5	8.6/107	7.37	660	400
01188090 Farmington R. at Unionville	7/25	578/34	80	19.5	9.8/107	7.74	43	24
01189030 Pequabuck R. at Farmington	7/25	50.2/--	278	19.5	6.5/71	7.19	248	84
01189995 Farmington R. at Tariffville	7/17	2240/13	84	20.5	8.5/94	6.78	3100	800
01190070 Connecticut R. at Hartford								
01193050 Connecticut R. at Middle Haddam								
01193500 Salmon R. near East Hampton	7/20	45.6/75	105	22.0	9.3/107	7.61	44	15
01196500 Quinnipiac R. at Wallingford	7/24	100/66	342	21.5	8.7/98	7.66	272	128
01198125 Housatonic R. near Ashley Falls, MA	7/19	1880/--	220	20.0	7.9/89	7.75	440	244
01201487 Still R. at Rt. 7 at Brookfield Center	7/31	110/--	343	19.0	7.6/82	7.65	900	560
01205500 Housatonic R. at Stevenson	7/31	6470/7	225	20.5	6.1/71	7.64	30K	14K
01208049 Naugatuck R. near Waterville	7/5	100/--	176	25.0	8.1/100	7.38	76	12K
01208500 Naugatuck R. at Beacon Falls	7/6	231/66	250	25.0	9.2/112	7.91	1320	44K
01208990 Saugatuck R. near Redding	7/26	7.82/75	191	19.5	8.6/93	7.85	180	440
01209710 Norwalk R. near Winnipauk	7/26	9.00/--	234	20.0	9.0/98	7.82	--	--

## GROUND-WATER LEVELS

(Status of ground-water storage as indicated by water level changes in observation wells,  
as shown on hydrographs)

- Shaded area on graphs show highest and lowest water levels of record through calendar year 1999.
- Solid line shows current water levels.
- Dashed line is monthly median for period of record through calendar year 1999.



### ABOVE NORMAL

Within the highest 25%  
of record for this month.



### NORMAL RANGE

Between the highest and lowest 25%  
of record for this month.



### BELOW NORMAL

Within the lowest 25%  
of record for this month.



**GROUND-WATER LEVELS**

Numerous high ground-water levels were recorded for the month of July.

Ground-water levels are in feet below land surface. Maximum and minimum values are from end-of-the month readings and may not be the highest or lowest ever recorded during the month. Statistics are based on period of record (through calendar year 1999). Ground-water level data collected by USGS personnel and individual observers.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN
	JULY 2000 (DATE)	JUNE 2000	JULY 1999	JULY MAX (YR RECORDED)		JULY MIN (YR RECORDED)		JULY MEDIAN		
BD 8 (Brookfield)	30.15	26	30.10	31.36	27.55	1972	32.36	1985	30.72	
BU 2 (Burlington)	24.95	24	22.20	24.62	17.14	1948	25.60	1964	20.81	
BU 143 (Burlington)	6.73	24	4.34	9.98	6.73	2000	9.98	1999	NA	>
BU 144 (Burlington)	1.75	24	1.56	1.76	1.67	1998	1.78	1997	NA	
CL 223 (Clinton)	7.09	25	4.79	8.67	6.71	1992	9.00	1993	8.25	
CL 224 (Clinton)	20.65	25	19.67	22.23	20.08	1993	22.23	1999	20.78	
CL 225 (Clinton)	7.30	25	6.10	8.03	4.80	1998	8.07	1993	6.99	
CO 335 (Colchester)	8.06	21	7.42	8.15	7.47	1988	9.35	1995	8.12	
CV 51 (Coventry)	5.13	24	4.45	6.65	4.83	1996	6.65	1999	6.35	
D 116 (Durham)	4.06	25	1.86	7.87	1.83	1989	7.87	1999	5.64	
D 117 (Durham)	11.37	25	10.29	13.65	10.84	1996	13.74	1987	12.81	
D 119 (Durham)	1.32	25	0.79	3.00	0.80	1989	3.37	1987	2.66	
D 120 (Durham)	2.81	25	2.25	3.84	2.47	1989	3.94	1987	3.40	
EL 82 (Ellington)	5.98	24	5.77	6.57	5.14	1994	6.57	1999	6.24	
EL 139 (Ellington)	26.51	24	21.32	dry	24.36	1998	28.87	1994	28.59	
EL 140 (Ellington)	16.81	24	13.02	19.84	14.31	1998	19.84	1999	17.61	
EW 133 (East Windsor)	5.28	24	4.82	5.78	4.86	1998	5.78	1999	5.51	
EW 134 (East Windsor)	50.14	24	49.90	51.45	49.05	1989	51.45	1999	50.42	
FF 23 (Fairfield)	8.44	26	8.25	9.70	7.36	1983	9.70	1999	8.36	
FF 30 (Fairfield)	4.48	26	3.43	8.60	3.50	1996	8.77	1995	7.25	
FF 31 (Fairfield)	9.52	26	8.10	11.95	7.04	1996	12.26	1995	10.10	
FF 32 (Fairfield)	7.17	26	6.19	10.97	6.97	1996	11.45	1995	9.52	
FF 33 (Fairfield)	5.41	26	5.31	7.24	3.10	1998	7.24	1999	6.02	
GR 328 (Granby)	10.73	24	10.41	14.51	10.73	2000	14.51	1999	13.46	>
GR 329 (Granby)	4.59	24	4.41	10.90	4.59	2000	10.90	1999	8.73	>
GR 330 (Granby)	2.66	24	2.50	5.83	2.66	2000	5.83	1999	3.76	>
GR 331 (Granby)	10.33	24	9.21	12.63	9.44	1984	12.63	1999	10.80	
GT 19 (Groton)	16.02	31	14.20	dry	13.30	1984	17.18	1992	16.22	
HM 445 (Hamden)	24.23	26	18.03	27.35	23.10	1998	30.93	1993	27.74	
HM 446 (Hamden)	3.97	26	3.16	4.21	3.71	1998	4.27	1994	NA	
HM 447 (Hamden)	2.88	26	2.33	3.81	2.88	2000	4.02	1995	NA	>
HM 448 (Hamden)	13.22	26	12.69	14.35	12.32	1993	14.95	1995	NA	
HM 449 (Hamden)	16.83	26	16.57	19.74	16.83	2000	21.31	1993	NA	>
HM 450 (Hamden)	13.21	26	13.15	13.64	13.20	1998	13.80	1994	NA	
										1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN
	JULY 2000 (DATE)	JUNE 2000	JULY 1999	JULY MAX (YR RECORDED)	JULY MIN (YR RECORDED)	JULY MEDIAN				
MB 32 (Marlborough)	6.18	21	4.31	8.13	4.18	1989	8.87	1993	7.15	
MB 35 (Marlborough)	12.37	21	9.53	15.05	11.44	1998	15.05	1999	14.10	
MB 36 (Marlborough)	6.54	21	4.29	8.00	4.95	1996	8.00	1999	7.79	
MF 1 (Middlefield)	10.65	21	8.29	11.98	6.85	1948	13.05	1965	10.59	
MS 19 (Mansfield)	11.52	24	10.61	12.70	9.77	1972	13.25	1965	11.85	
MS 44 (Mansfield)	3.84	24	3.55	7.05	2.82	1984	8.60	1993	6.21	
MS 45 (Mansfield)	12.45	24	12.03	13.69	11.76	1996	13.75	1995/97	13.34	
MS 46 (Mansfield)	13.96	24	13.14	14.44	13.00	1987	14.61	1995	14.14	
MS 74 (Mansfield)	5.17	24	3.57	8.42	4.70	1996	8.42	1999	7.39	
MS 75 (Mansfield)	8.92	24	6.84	12.87	8.92	2000	12.87	1995/99	11.82	>
MS 76 (Mansfield)	29.37	24	28.71	35.60	29.37	2000	35.60	1999	34.06	>
MS 77 (Mansfield)	5.18	24	3.76	8.41	3.65	1996	8.41	1999	7.52	
MT 261 (Middletown)	20.72	21	19.90	21.94	20.24	1972	23.11	1994	21.68	
NHV 201 (North Haven)	15.35	26	15.07	17.83	14.05	1984	17.83	1999	16.30	
NHV 202 (North Haven)	47.08	26	39.85	51.37	40.41	1984	60.03	1985	51.17	
NOC 7 (North Canaan)	9.29	31	9.47	10.30	9.04	1975	10.50	1995	9.80	
NSN 77 (N. Stonington)	13.36	25	11.08	14.80	12.11	1998	15.69	1993	14.76	
NSN 78 (N. Stonington)	5.86	25	4.97	6.55	4.76	1996	6.62	1994	5.72	
NT 15 (Newtown)	5.73	26	5.15	8.97	3.17	1972	9.50	1995	7.52	
PL 1 (Plainfield)	29.87	25	29.29	30.95	28.60	1989	32.03	1966	30.60	
SB 30 (Southbury)	18.45	26	18.35	21.43	18.45	2000	21.43	1999	20.02	>
SB 39 (Southbury)	7.07	26	7.04	8.17	6.97	1996	8.17	1999	7.64	
SB 41 (Southbury)	49.13	26	47.60	54.15	47.63	1996	54.15	1999	50.56	
SB 42 (Southbury)	13.60	26	12.78	20.15	13.60	2000	20.15	1999	16.36	>
SC 19 (Scotland)	7.53	25	4.76	9.72	4.66	1984	9.94	1997	7.35	
SC 20 (Scotland)	8.34	25	6.50	9.25	5.86	1984	9.33	1997	7.92	
SC 21 (Scotland)	0.75	25	+0.53	1.14	+0.81	1998	1.34	1995/97	0.70	
SC 22 (Scotland)	12.61	25	11.57	13.34	11.26	1998	13.34	1999	12.80	
SC 23 (Scotland)	2.58	25	1.56	2.67	1.90	1988	2.96	1998	2.67	
SM 7 (Salem)	11.45	25	9.05	13.00	9.60	1984	13.00	1999	12.39	
SW 64 (S. Windsor)	10.98	24	9.59	12.37	9.29	1972	14.61	1966	11.80	
SY 15 (Salisbury)	12.00	26	11.48	13.77	12.00	2000	15.02	1988	14.13	>
SY 23 (Salisbury)	6.60	26	6.19	12.12	5.55	1996	14.49	1993	9.21	
SY 24 (Salisbury)	10.47	26	9.35	15.25	10.47	2000	16.43	1995	13.64	>
WB 93 (Waterbury)	27.68	26	27.55	OBS	26.43	1973	28.35	1957	27.87	
WB 198 (Waterbury)	14.42	26	13.81	17.81	11.60	1972	18.95	1985	15.03	
WY 1 (Woodbury)	22.87	26	22.45	27.87	21.80	1973	31.55	1915	25.82	
										1913

New records: >, new record high for month; >>, new record high for period of record; <, new record low for month;  
 <<, new record low for period of record. \*, median not calculated--number shown is mean; NA, not available; OBS, obstructed,  
 +, water level above ground surface